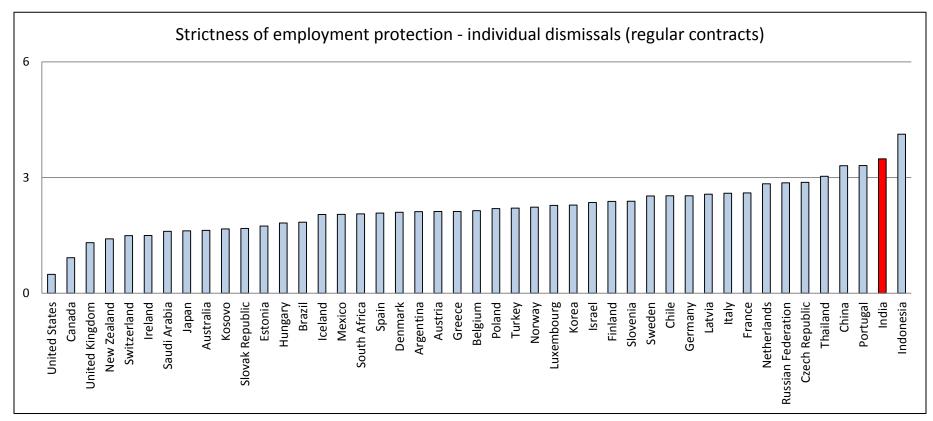
## **Labour Regulations in India**

Much Ado About Something?



# India's labour laws are more rigid than those in most countries...

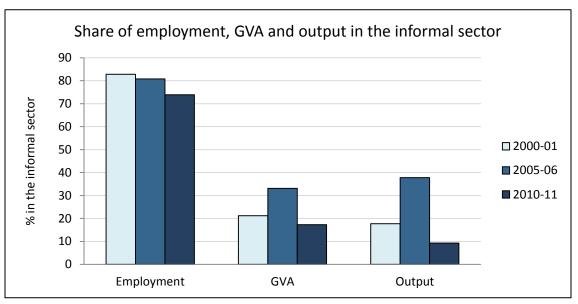


Source: OECD data 2012

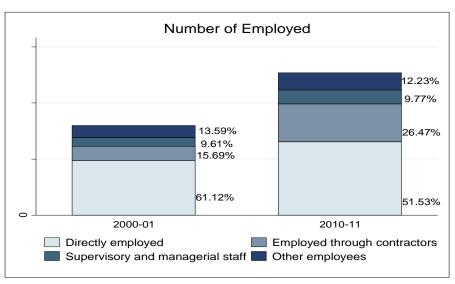
## Studies on the impact of this de-jure rigidity

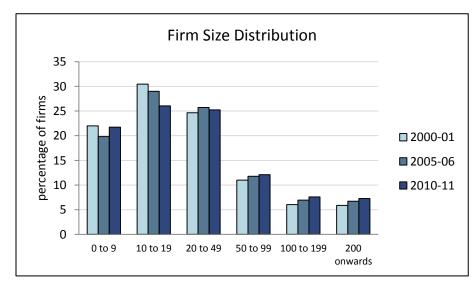
- Industrial performance weaker in states with pro-worker labour laws (Besley and Burgess (2004), Aghion et al. (2005), Topalova (2004), and Sanyal and Menon (2005).
- ➤ Hasan et al (2008) construct a composite labour market regulation measure at state level and find that states with relatively inflexible labor regulations experienced slower growth of labour intensive industries and slower employment growth.
- ➤ Dougherty et al (2011) find that firms in labour intensive industries and in states with flexible labour laws have 14% higher TFP than their counterparts in states with more stringent labour laws.

### De-jure inflexibility co-exists with de-facto flexibility



Source: ASI and NSS data





Source: ASI published statistics Source: ASI unit level data

## Are labour regulations alone responsible for

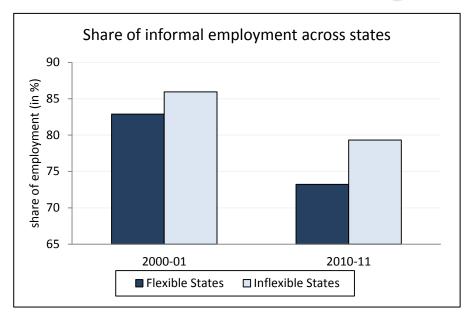
- ➤ Dominance of Informal Sector
- ➤ Proliferation of Small Firms
- ➤ Increasing Contractualisation

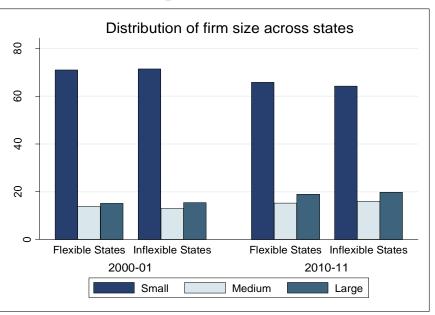
Or are there other factors at play?

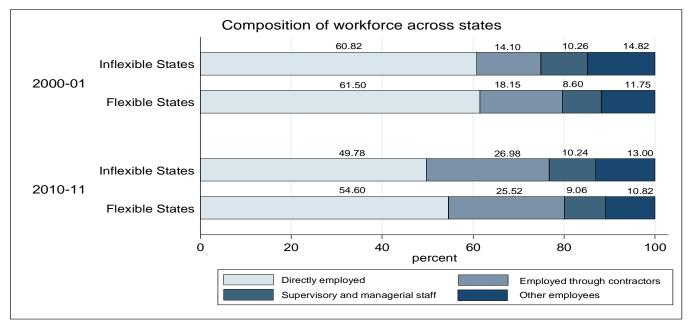
#### Data

- ➤ ASI database covers firms that are registered under the Factories Act (firms employing 10 or more workers using power, or 20 or more workers without using power).
- > Time period: 2000-01 to 2011-12
- Provides us with firm level data on value added, output, employment(contract and regular workers), age, size, capital, and profits.
- ➤ Build a panel of state industry data on GVA and employment in the formal sector and compute their respective shares in the total employment and output in each industry *i* in state *s* at time *t*.
- ➤ Build a panel of state industry data on number of firms for three types of firms (small/medium/large industries) and compute their respective shares in each industry *i* in state *s* at time *t*.

## Do Labour Regulations Really Bite?







## **Empirical Specifications**

(1) 
$$ln\left(\frac{cW}{TW}\right)_{fist} = \theta_0 + \theta_1 Time + \theta_2 LMR_s + \theta_3 PMR_s + \theta_4 \left(\frac{W_c}{W_d}\right)_{fist} + \theta_5 Size_{fist} + \theta_6 Labour Intensity_{fist} + \varepsilon_{fist}$$



(2) 
$$\theta_{ist}^{formal} = \sum \alpha_i d_i + \sum \omega_s d_s + \beta T + \mu L M R_s + \lambda (Other controls) + \varepsilon_{ist}$$



(3)  $\theta_{ist}^{k} = \sum \alpha_i d_i + \sum \omega_s d_s + \beta T + \gamma (Size Dummy) +$ 

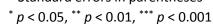


 $\delta(Size\ Dummy * LMR_S) + \lambda(Other\ controls) + \varepsilon_{ist}$ 

#### Stringent LMR are not the only factor incentivising firms to hire contract workers

	Dependent V	ariable: Share of Contra	act Workers in Total		
	Workforce				
	(1)	(2)	(3)		
LMR	-0.03*	-0.03*	-0.03**		
	(0.01)	(0.01)	(0.01)		
PMR	0.01	0.05***	0.06***		
	(0.01)	(0.01)	(0.01)		
In(W <sub>c</sub> /W <sub>d</sub> )	0.42*	0.39*	0.56*		
	(0.19)	(0.24)	(0.25)		
In(size)		-0.01	0.27***		
		(0.03)	(0.03)		
In(size²)			-0.03***		
			(0.00)		
time	0.02***	0.04***	0.04***		
	(0.00)	(0.00)	(0.00)		
N	69402	68556	68556		

Standard errors in parentheses



# Share of the formal sector is significantly lower in states with more stringent LMR

	Dependent Variable: Share of employment in formal sector		Dependent Variable: Share of real GVA in formal sector	
	(1)	(2)	(3)	(4)
LMR	0.10***	0.10***	0.04***	0.04***
	(0.01)	(0.01)	(0.01)	(0.01)
In(SGDP)	0.16***	0.16***	-0.15	-0.15
	(0.03)	(0.03)	(0.10)	(0.10)
Physical Infrastructure	0.04**	0.05*	0.08***	0.07*
Index	(0.02)	(0.03)	(0.02)	(0.04)
Financial Development		0.09***		0.01
ndex		(0.03)		(0.05)
State fixed effects	Yes	Yes	Yes	Yes
Industry fixed effects	Yes	Yes	Yes	Yes
Time	Yes	Yes	Yes	Yes
R-squared	0.72	0.72	0.63	0.63
N	2592	2592	2592	2592

#### No robust evidence to suggest that LMR affect firm size distribution

	Employment	Firm	Employment	Firm	Employment	Firm
	share	share	share	share	share	share
Size 1: Small	-0.04***	0.20***	-0.05***	0.19***	-0.05***	0.19***
5120 1. 5111011	(0.00)	(0.00)	(0.01)	(0.01)	(0.01)	(0.01)
	(	(===,	( )	( ,	()	( ,
Size 2: Medium	-0.01***	0.04***	-0.01	0.04***	-0.01	0.04***
	(0.00)	(0.00)	(0.01)	(0.00)	(0.01)	(0.00)
LMR*Size1	-0.01***	-0.01***	-0.00	0.01	-0.00	0.01
	(0.00)	(0.00)	(0.01)	(0.01)	(0.01)	(0.01)
LMR*Size2	-0.00	0.00	0.00	0.01	0.00	0.01
	(0.00)	(0.00)	(0.01)	(0.01)	(0.01)	(0.01)
	,	,	,	,	,	,
LMR*Size3	0.00	-0.00	0.00	0.01	0.00	0.01
	(0.00)	(0.00)	(0.01)	(0.01)	(0.01)	(0.01)
In(teledensity)			-0.02	-0.02	-0.02	-0.02
in(teledensity)			(0.01)	(0.01)	(0.01)	(0.01)
			(0.01)	(0.01)	(0.01)	(0.01)
In(bank credit					0.01	0.00
per capita)					(0.01)	(0.01)
	0.42***	0.07***	0.4.6***	0.00***	0.40**	0.44
Constant	0.13***	0.07***	0.16***	0.09***	0.19**	0.11
Chaha fire d affacts	(0.01)	(0.01)	(0.02)	(0.01)	(0.06)	(0.06)
State fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Industry fixed	Yes	Yes	Yes	Yes	Yes	Yes
effects						
	44500	44500	2=22	2700	200	252.1
N	11532	11532	2700	2700	2634	2634

#### The Road Ahead ...

- India's labour laws give a high degree of protection to very few workers in the organised sector, while leaving a large proportion of its workforce unprotected against any contingencies and arbitrary actions of employers.
- There is an urgent need to reduce "dualism in the regulatory regime" by bringing in the largely excluded segments of the unorganized sector into a regulatory framework.

#### **But**

- ➤ Will reforming labour law in the way the government has done it till now create "good jobs" and a healthy industrial sector?
- ➤ Or will it simply free more employers from the obligations they currently hold for ensuring job security, health, and social protection of their workers, and further increase informal employment?